

1/21

-6660 TCTAGAATAT AGAAGATAAG TTTGCGTACA ATTCAGTCCT TTGAAGACCT
GATAAGCTTT AAGAAGGAAG ATGGGTACCA CATTGGGAAA TGGTTGCAAT
CTGCACATGG CAGAGGCAAG AGATGCAAAT CACATTTCTT ACATACTCCA
-6510 TACAAATCTT ACAAGACTGT TTTTCTTTCT CATTTAAAAT AAGAAGACCT
GCCAGTCTTC CCCTTATTAC TAATTACAGT CACTCTGTAT CTTTGTGAC
ATTGGATAGT TTTACATACT TCAACAGGCT GGTGTCATTA AAGTTGTGGT
GGGTGGGCAC CAGAGACACG TGATTCAGAG TGGGAGGAGA TGCAGGAGAA
ACGAGGCACA GCAGAAGCAG AAGCGAGGAA AAACACTCTC AACGTTACTA
ACACATCGAG AGGTTCGCA CACTAGCAAT ACGGGCTGAA TCTGACCTAA
TCTCTGCTGT TGAAAATTTT GCCTAGCCGC AACTAGCAA TACGGGCTGA
ATCTGACCTA ATCTCTGCTG TTGAAAATTT TGCCTAGCCT GTCACACAAG
TGCTGAGCAT ACAGAAAAAG GAGAGTAATT CTCTGGTTCT TTGACTAACC
AAATAGTCTA TATCAAATTG CCTAAGATAA TGTATACATT TAGTACATGA
-6010 CTGGTTATAC CTATTCTATA TGACTATTAT TTAAATGTGA ATTTACAAGT
GAGCATATGA AGTCCATTTT ACATGGCTAG TACATATAAC TTTTAAAAG
TTGGACATAG TTATATTTTT CCATTTATTT ATTTACTTTA TATCCTGATC
ACAGACCCCC CCCTCCTCTG GATTAACCTCT CTCCACTGCT TCTTACCCT
CCCCATCTCT CTTTACCTC TGAGAAGGGG GGATACCTCC TGTCTTATCT
GGTTTCAGTG GGAGAAGGAT GTATCCTAAC ACATATAATT TTTAATATCC
TGAGTTTTTC TTTACATAC CTTACTTATT CTATTCATTT TTCAGGAAGG
CATGTTTAAT GTTTTTTTTT TAATTTTATG TGTACGAGTG TTTTGCCTAC
ACAGTCATAG TGCATCGCAT ACATTTTTCG TGCCCGTAGA GATCAGAAGG
GAGCATTGGG TTCCCTAGGA CTGGAGGCAT GAACCACCTT GTGGGTGCAG
AGAACTGAGC CTGGGTCATC TCAAAGCATC AGGTTCTTCT TGAGTCATCT
CACTTGCCAC TTCTCCCATT TACTGATTTT ATCTGTGTGC AGACATTCAT
GGCCCAGTCC ACAGGTGGAA GTCAGGGACA ACCTATAGGA GTCAGTCCTC
TCCTTCTACC GTGTGAGTCC CTGGCCTCAA ACTCAGGTTG TCGGGCTTCA

Figure 1

2/21

TAGCAAGAGC TTCTATTTGT TGAGCCATCT TGCTAGCCCC ACCCCATACT
ATCTTTATAA TATCTGTTTA ATTAAGACAT TCATAATGAA TTTTATTAAC
ATTCATCGTT ATCCCCTTTA CCAATTTTAC TATGTATTAA TTGCCACCCC
TTTAAATTTA ATTACTTCCT TGGCTGGGTT TTACAGGAGA GTTCCAGGAA
GCTAGATGGA GAGATGGCTC AACAGTTTAG AGCAACGGCT GTTCTTGCAG
AGGACCTAGG TTCAAGTCCT GGCACCTCAGA GGTGGCTCAC AATCATCTGT
-5010 GACTTCAGTT CCAGGGGATC TGAAGAATTC TTCTGGGCTC CATGGGCATC
AACTACACAC TTGGTTCATA GACATACATG CCAGCAAATG ATTGATCCAT
ACATATGAAA TAAACCATAA ACAGAAAAAA AAAAGGAAGG TGAGGGAAGG
AAAAAAAGTT TAAAAAAGG AAAGGAAGGA AGGAAGGGAN NNNNNNNNNN
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNTCTCTC CATACTGAAA
GATGTCCACA ATGACTAAGG GAATTTTTTT TAAAAGACAA GCACAACGTT
TTCTAGGGAT CAAACTCTAT TTGTGAGGAA GACTGGTGGT TTGAAGATTA
CATAGCAGAG TTACATCTAA CATGAGCGTG TTTCCCCTGG ATGGAAGGAG
TCTGATAACT TGTCTTTCTT TCTTAGTTAG CATCTCAGAG TCCCCGCCT
CCCTTAACAT CCTTTTGTGA CACCATCTTT TTAGGAAAAT GGATCATTTA
TGGGGATGTA GTGATTTGTA CAAGAAATGC CCCTGTGGGC TCAGATATTT
GAATACTTAG TTCCCAGTTG GGGGAGCTTT TGTAGGGAGG TTGGGAGGCA
CAGCCTGGCA GGAGGAAGCA TGCTAGCAGC TTTGAGACTA TAAACCCTCA
TCTACTACCT TGTCTCTTTT CTGCATTGTG CTGTGTCTGA CACTGTGAGA
TTCCTGCTCC CGATGCCATG CCTGCCCCGC ATGATAGACT CCTAGCCCTC
TGGAAGGTA ACCTCAGTGA ACTCTCTTCT ATAAGTTTCT TTGCTCCTGG

HindIII (-4200)

TGTTTTATCA CTGAAACGGA AAAGCTTGCA GGGAGGTAGG AGGCAGCCTG

Figure 1 continued

BstEII (-4100)

TGGCGTTGAT TCAATGCACC TGGCCTTATC CTCGGATGAG ATCGGTCACC
 AGTCAAAAAC TGTGAGCTTG AAGGTCTTGG GTGCTTAACA TCTATTTTAA
 CAAATCTTAT TTAGCAACTT AGAACTGTGA AATATTGGAA AGCTACTTAA
 -4010 ACCTTCTAAA CTCCCTCCTC CACACTATGA GAATGTTACA TTTTCTATTC
 AGTTATTTTT GAGCAGTAAA CAGATGAATC AAGGAATATG CCCATCACAT
 CAAGAGTGCT CCTAAATGGA CTTGCTTGTT ATTCATTTAC AGTGTGGCCC
 CTTGACTTTC ATCGGCACTC CTAGCAGAAA ACAAATCCG CCAGATGGAG
 CTGGAGAGAT GGCTCAGCTG TTAAGAATAC TTATCCCTAC ACAGGCCCTG
 GAGCCAGTTC CCAGCACCCA CACGGTGGCT CACAACCATC TGTAACCTCA
 GTTCTAGGAG ACCCGACTCC CTCTTCTGTC TGAAAACACC AGGCACGCGT
 GCGGTCTACA TACAAACATG AAAGCAAAAT ACACACATTA CATAAATAAA
 TCTTAAAAAA TGATTCGGGG TGGGGGAAGG AAAAAAAGG ATGTTAGAAA
 ATCGATGTAA CTGTTTTTTC CTTTGCACA GATCTAAGTT AGGGAAGGAG
 AACATTCTCT TACCATCGAA AATAATTGTT TTCATTGCCC CCAAGTCTGC
 TAATAGAGCT TGCTACCTTC ATGGCTGTCT TAAGGATGAG GCAAAGATGG
 ACTTCAGCTT TCAGACTGTG TCTGCTCAA TGTTGGCTAC TCCTGTTTTT
 TGACCCCTT CTCTGGTGCA ATGTGGACTT TCAATTAATT TCCCTGCATC
 TTTTACATAT TTGATTTAAA AAATATTTTA TTTTATGTAA TTGTATGTAT
 ATGCATGTCA ATAAGCATAT GTGTGTGTGT TTCCATGGAA ACCAAGGCAA
 CAGATTTTCC AGAGCTGTAG AAATGGGCTG TGAGACGCCC ACTGTGGGTG
 TTCGGAACCA AACTCGGGTC CTGTGGAAAG ACAGCGAGCA CCCATAATGC
 AGAGGTATCT CTCAGATTTT ACTTTAAAT TTCAATTTTC TTTTTTTTTT
 TTAAAGTTCC AAGTAACTAT AGGAAAGTAC ATGGGTATAT AGATCCCCAG
 -3010 TACCAAGATT CTTCTTTTGC AGGTAGCACA ACTTGGTTTG TTTCACATAA
 AGAATGGAAA GTCATTAAAA CACTCATCAC ACTGTAAAGT AGAATTGAAC
 TCTGACAGAA CAAGCGAAGT GAGTCTGACT TCCAGGTAAC TGAGCCTTCT

Figure 1 continued

TTTCCTCCTA AAGACACAAG CCATACACAG AGTAAAATAA ACTTGGGCAT
GGTGAGAAGG AAACAACGCA GGAGGGCTAG CCAAGTCTGA GAGTCGTGAG
TGTGCTCGGT TTATAAACGG AGCCACCTT GCCAGCGAGG TAGTCACATG
CTCTGCTAAA CAGAACTTA AGAAAACACT TACACGAAGC AAACATGGGG
AAGTGCCATG CAAGCATGTG ACTGACTGGT GGCAATGACC GAAACCACAG
CAGCCACTAG AAAAGGAAGG GTAGTGCGCC ACACTGTAGT TGTGAAAATG
AACTTATTCA TTTATTTTGA AAAACGTGTA AGAAGCAAAG ATGTCTTCTT
TCCCACCTAC CTTTGC GGCA GCGAGCACT TCCTGGAATT TATAAAGTGC
GATCTTTCTG GGGACTTCTC ATAACATTTT CTACTGCTCA TCTATGTCTG
TGTCAAATAG AGAATGCTCT TGAACAAGTG TGTGTGTGTG TGTGTGTGCG
CGCGCACGCG CACTCACTCC TGCTCTGTTG AGGTCCAGTT TTGATGGTCC
CGCCAGAGGT ATATTTGAGT ATCATTTCTC AAGAGCTTCA GCTGGGAGAC
ACTGCCTCTT ACTGGCCTGA AGGTCACCTAG CTGATTCATC TCCGTTTGGG
CTGGCGCGCC TTGGGGATCC TCCTATCTCT CTTTCCCCAG TGCTGGGATA
ACAAGGTTGG CACCACATGA GCCTTTTAAA ATGTGAGTTT GGAAGCTCAA
ACGCAGGTTT TCATGCTTGC ACTGAACTT CACAAGCTGA ACCGTCTCCC
TCTCCTTCCC TCTCTTTTTT CTTTTCTTC TTCCTTTTTA AAACACATCT
-2010 TGTCTTTAAA AAAAAAAAAA GGCCCAAAC AAGTGTAAG TATTTCCCTA
TGTGTGTGGA GGGAGGGAGT ATAGGAGGCT GATTTCACTG AGATCCTGTT
AAATTTGGGT GCCATAGCCA ATCAAAGACG CATCGTTTCC TCTAAGAATT
CTAAATGGGG CGATTACCAC GGCCTGCAG GTTCTGGTTT GTATTAGAGG
AGACACTGTC TTCTTAAGTA AAACATAGAA GGGGAAGTGT CCAGAATTGT
AAATAAGGCT TCGAGAGAAG CCTTGTCTGG CCACCGGGAT GGAGAAGACC
TACCTTCGCC TATCCAGGAT CCATCGTCCC TCCCTCTACC CAGATCTGAC
AGCCCTCCTT GGCTCTTTTG CTGAGGTTTG TTTGAGTTTG TTTACTCTC
TGCAAGAGAA GTTTCCTTAA ACATTCTACC CTGTTACAA GTAAATACAC
CTCTTAGCTA AGAGGCCACA CACCCAGGGG GAACACCGAT AAAAGAACA

5/21

5650

-1010

6150

-510

AGCCAGAACC TTCAGAACGC TGTCGATAGG TACACCAAGC AGCCTTCATA
CGGAGTTTTTTC ATTCGTGAGG AGCTGAATAT ACAACAAAGC TAAATGTGAG
CAGACCAGGC ATGCCTCTGC TAAATGAGGA TGCCACACACC AAACATGCCC
AAGATCTTCA AGTATAATTT TATTATATAG ATTCGCTATG TGTGACATG
TTTTTTATAGT GAACCTGGAT TTTACAAACC CTCCTGGTTT GCCACCTGCT
TCTGGCACCA TACTTGAGGC TTAGGCACGT GATAAAGGAG CATGCCTGTT
TCCCCCTTA TTTTTTTTAA AGAAAAGCAC CATGTTACAT CATTAAATCAT
GCATATCAGT GTAGTTTAGA TCCGATGTAG AGACAATAAT CTTATCTCTT
TGTCTGGCTG AAAGACTGTC CTTTAAACTA TCATTCTAAA TGCATTTGGT
TTTTGCCAGG AGTAAAACAT GTCACAAGAT ATTTGTTGTC ATTTCCCAGG
CGTGGAAGGA AAGGAATGGA AAGAAAACCA GGGGTGAAGG CTGCTGTTCC
TCTCTAGTCG CTACTTGAAG TCTACATAGC TGGGGGGGGG GGGGGGACTG
TTCACATGGG ACCGGTTTCC TCTTTGTTCC TACACTGGCG CCTCTGGCAA
AAAACCTCTCC CTTCTCTTCC CCCCAGCAT ATCTTGGCTG AAAGGTCAGC
TCTGAAAAGG GGCCTGGCCA AAGTTACTGT AGGGGACCGT GGTCATGGAA
CTGGGTAAAC AAAAGCACTC TAGCAGCCAC TGGAAAAGGA CCGGGGGCTC
TTCTCTGTGC ATTTGCCCTG GAACCCTGAC CACCGCCAGC TCCCTGCATC
TCCTTGCTAT GGGTTTTCTG GACCGACCCA GCCAGGAAGT TCACAACCGA
AATGTCTTCT AGGGCTAATC AGGTAACTTC GGACGATTTA AAGTTGCCAG
ATGGACGAGA AAACAGTAGA GGC GTTGCA ACCTGGATAA GCGCCTATCT
TCTAATTAAA ACATTCAGAC GGGGCGGGGG ATGCGGTGGC CAAAGCACCA
TAAACAAAA CTTCCAAGTA CTGACCAACT CACTGCAAGT TTGTGCCCCG
AGTACATCTA GGTTCAAGGG TTCTTGCTTT CATGCTCCCA ACTGCGGGCG
GATTTTTGGT CCCTTGGGAC TTTCAGTGCA GCGGCGAAGA GAGTTCTGCA
CTTGCAGGCT CCTAATGAGG GCGCAGTGGG CCTCGTGTTT CTGGTGATGC
TTCCCAGGTT GCTGGGGGCA GCAAGTGTCT CAGAGCCCAT TACTGGCTAC
ATTTTACTTC CACCAGAAAC CGAGCTGCGT CCAGATTTGC TCTCAGATGC

Figure 1 continued

Figure 1 continued

7/21

CTTGGGCTTT TGTGCAATAA TTTCCCTTCC CTTCCCTTCC CTTCCCTTCC
CTTCCCTTCC CTTCCCTTCC CTTCCCTTCC CTTCCCTTCC CCTCTTCCTT
TTCCTCCTCC TCTTCCTCCT CTATTTCTCT GTCATTTCCCT TTTTGAAGCC
ACAGTTTGCA GATTTC CAAT CTCCACCCAT TGGAGAATGG AGAATCAGGA
AAAAAGAAGT CAATTCTGCA GAAACATTCC TTGCGCCCTA AGAGAATCGC
ATGGCTTAAA AGCATTTGGCA CTGACATACG GCGCCAAGAT CGCCTGTCTA
GAGCTATTGA GTTTTCCTCA TAATGACTTG GTTCATCAGG CTAGCTCCAC
CACGAGTGCC CTCTTGTTCC TGAGAAGGCC GCACTCTCCC CCTTTCTGGG
AAGAGAAAGA CAGCCTGGAA CATGTGCTTG CCCTGGGTTC CATAGAGAAG
CAAGTTGCTT TAAAGCCCAG AGAATTCCTA GTGTAGCAGC TTAACAGCGT
CCCGTTCTCT GAATAAGATG GAGGTTGCCC TTTTGGAGTG TGTGACTTGC

XhoI (+1677)

TTAATTGGAT TGGGCTATAA TTGGTGCCAT CCAAGTCTCG AGACAGAGCC
GCTGTTGTTT TTCCTTCTGG TCTTTGAGCG GGAAGGATAA CAGTGCACAA
ATTAATTAAT GTTGGTTATC GGATTGTAAC ATAAAAGGGC TTTTATTGTA
TAGTAGCATA TGTACCTCTT GCAGTCAGAA TGAGCTGTCT AAAGAACAGA
ACCCAAACTT GCCGATGAAA ATGAATGAGG TTTAATAAAG GCGATGGATG
AGCATTAGTC ACTGATGTAA ATCTCCAGTT ATTGATAACC TCATTGACTG
GATTTGATTG CAGACATGTA TTGGTATGGG GCATCCTTTA AAGATGAGCA
TAGCCAACGT GCCTGCACTC TAAGAGAATC TATGGCTGTA TGTTATTACA
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GCGCTGAGGC TCTGCGCTCG CTTCTGGCA CTGAAGAATA AAGGCCATTT
ACTGTGGTGG TGCAGTGGGC GCAGTTTGTG ACGAGTTACT ACTACATTTT
CCTCACACAT CTGCCTGACT AATGAGTTCA TCAGATGAGC GTATCCAGTG
ATTGTTTGCA GGTTAATGGT TCTCAGTCAT GTTTAGAATC TACTTATCAA
ACAAATTGTT TTCTCATTTT CTGCTTCTTC TCAAACAAAG TAAGATTCCA
TTATTGAAAG GCTTGTTTAA GAGCATTTTA ACTGCTTGCC TATGTTAGGG

+1990

ACAGTGA CTT ATTTCATATT GACAAATATT ATGCCGATTA ATTGAATATG
ACTACCCAGT TCTATAGCTG TCTCAGGGCA GACCAAGAGC ATCTGTGATC
CAGTCACTTT AAATGCCATT TAAAATGCAT AATTTGTTGG TCTAGGAATA
AACACACTGT AAAGTTTAGA ATCACGGCCC AAACACAAGT CTTTAACAAT
GCCAACTAGC TTCTGAGATT CATTAATGTC ATTTAATTAC CAATGTTTTA
AAAATATGTC ATTAATTACT AAATCTATAG TTGTAACAGC AACACATGTA
CATCTTATTA AGTTGGGTAT ATTCAGGGTG GCATAGCTGT AGACTATTGC
ACATCTGTGT TGGTGAGCCA GTGGAGAACT GCCTCCTGGC TGTTCCTAGA
AGGCCACAGT GTCACGGCAT TGGCTATTTG CCTTGGCTCT TTGCTAATAC
TTTATTGACA TGGCCTCATC TTCGTTACAG TTTACTTATT TGCCCAACAA
CGTCAATGCC AGCTGAGGCC TTAGGAGTCA TCTGTTCTTA GTCAGTGCGA
ATTAGAAAGC CTGGATGCCT GCCTGCTATT AATTAGTTAT TCTTCTCTTC
TGAGACAGAG TCTCACTGTG TGGCCCAGGC TAGTCTCAA CTTGCGGTCC
ATTTGTCTCA CTCATCAGAA TGCTGGGCTT CCAGGTGTGT GCACCACACT
AGGTAGCTCG CGTTTTAAGC TAAGAGCTGG AAGATCCTGA TGTCTTTTAC
CATGGTGGGC ATGTTACAGG TTAGTTGACT GAAAACTAGT TATCTCGCTG
TGTAATGACC TGCAGTGGTA TGTATCTCTC AAGATGCTTT TTTGCATTTT
AATCAGTTAG GTAACAAGTT CTTAAGTCTC CAGCTTGGTA TTGGCATGAG
CTCAGAGCTT TGATTAATGA GTTGGGACCC CCTAGCTATT GCTCATTAGA
CTTACACTAT TTTTAGTTTT GCTCTGAGTT TATGAATATG CATGTATGCA
TGAAGTTGGG AGATATTTTT CTTCCCCAAT TCCTTTTCCT CCATTTAAAT
GTGCTGTCTT TAGAAGCCAC TGCCTCAGCT TCTGCAGCTC AGATACCAAA
GGAAGTCTGG TACACAGCAT GATAAAAGAC AATGGGACGG GGTCACAGTG
GCTCCCGTCC CTTTCAGGGG TATGGAGACG AGCTGTAGAG AGATGTCTCC
AGGGAGTTTT CATTAATCAG CAATTTAGTC AGATCTGTGC ATCCTATGCT
TTACAAGAAA TGTCAGTGGG CCTGAGATCA TCAGATGGAG GTTCATCGGG
TTTCAATGTC CCGTATCCTT TTGTAAGACC TTGAAGTTGG CAACGCAGGA

Figure 1 continued

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	5
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9/21

AAACAGGAAC TCCACCCTGG TGCCGTGAAT TGCAGAGCTG TTGTGTTGGT
TTGTGACCAT CTGCCCATTCTC TTCCTGTTAT GACAGAGCTT GTGAACTTTA
ACTGGGACTG GGGCAAAGTC AATCCCACCT TTATACAATG AATTGCTGAA
GAGGCCTTTT AAAACTTGGA GTGTGCATTG TTTATGGAAG GGCTTTCCTA

BamHI (+3947)

10650

+3990

TTGGATCCAA CTCTTTTCTA ATTTGTTTCT AGGTTTGCCT GCGGATTTTC
TCCATCCCCC CAAGCTCAGC ACACAGAAAG ACATACTGAC AATTTTGGCA
AATACAACCC TTCAGATTAC TTGCAGGTAA GGATTCCTTT TTGAGCCAGC
TTTCCTATGT GAAAGGACTC ATTTGTTTACT GAGGTCACAA CAATTTCCAC
TATTGCAGAA GTATAATAGT ATTTGTTACAA TTGTTTATAA ATCATGAGAC
TTCTAAGAAC CTATTTAATA ATGAAACAAT GGAAAAAGTC TTTTCAAACC
TTTGTACTCT TTTGCTGAGC CGTTTTCAAC ATGCACAAAC ATATTACACA
AATATAACAT ACACAGGAAC ACACATGAAT GCATGGGATG ATGTGCCTAA
AACTAGCATG TAATTGATAT TCACAATTAT TGATAAATTA GTAAAGCAAA
GGAATTCCTT ATGAATAGAG CTAAAATTCT ATCCATGTTC AAGTCACCCA
GAATGGCTTC TGGACATTTT TTTTTTTAGC TGTTTTCTAC AAGTGAAATT
CTGCCTGTAT TAGCAATTTA ATATCTAGCC AATAATATTC CTGACCATAT
GTCCTGTTCA GACCATGACC TTCATAATCT GGCTTGATGT TCTGGGCTTC
TTTCCCTCTT GCCAGCAAGA TGTACCGGTG TTGATGCTGG ATAAACTGAG
AAACAGAAGT TTTTCGCAAG AAGAGGACCT TGAATTTTGC TTTTCCCCTG
AGAGACAAGA AAGGAAACTT AGAGGAGGTG TAGCTGGGAG TGTGGTCATT
CATGAAAGAC CTGTTTGCAG GGCAGTGTGT TTTGCTGGGG ACAGTAATGA
GCCTAGATCG TAGTGCCATC CCAAGAGAGT GCTTGGTGGC AAAAAGAGCC
CTAGCAGCTT GTGGCAGTTG CCTCATATTT GAAGAATACT AAGAGGTCCC
CCGAATAACT CAGGGCTAGT GTTGATCATT GCATGTGGAG AGAATCCAAG
CCTCCTATCT AGGGTCTACA AAAGTAACCA ATGCCCAGTC TTTGGGGGAA

Figure 1 continued

10/21

11650
+4990 AGCAAAACCA GAAAGCGATG ATAGCAGGAC CTGTTTATTT TCATTAAGTC
ATGGCATTTC CAGAGACTTT GCTCCCCCTA TTCTCAGACA CAAAGCCCAC
TTAAGATCTC CCTCTGGAGA CTGCTGGGAA CATTCTTAA GTTCTGAAAA
AACCCTGGAG TGATTGGGCA CAGACGATCC TGTCACCTCA TGTGAGTGCT
AAGCTCTTTG GGTGATGACT CAGTGGGTCA CATTGTTTTA TTCATATTGA
CTACCTTCCG TTTGCTTTGC GGAGAATGGA AGCTATAGAA GTCTGTTTGG
TGTGGCCCTC ACAAGGCACT GTGAGCTTCT TCTCTCTGTG TGCTAACTTC
TACTCTCCC TTGCTTATAC CCACATAGGG ACTCTGGCTT TGTGCTGTT
CTTCAATGCT TCAGATGTGC CCTGGGTCCT GTCTGTCCTT CACACTTACT
GATGCTGCCT GGAATGCTAT TCCTCCCAAT GTGCATAGGG CCAGCTCGGT
CCAAATCCTC TCTTTTCTTT GCCTCTTTTA TATTTTCCTT CACAGTATCA
AATCACCACA GTTTATGCAA CAAACTGAAA CTTTAAAATT GTCTGTCTCC
TTATATTAGT GATAGGTTCC AGAAAGGCAC TGATTTTTTT TCTTCCCTGG
TGTACACTGG GCAACTACTC TACCACTGAG CGTGATATCC TTGGTCCCTT
AAAAGTTATC CTCTGTCCTT AATAATGCTT AGCAATCATA TTTGCTTAAA
ATATTTATTG AATGACTGCA GGAATGAATG AATGAATGAG CTAACAGAAA
ACTCATGACC ATGTGGGTGA TTTCCGAAAC AGAGTGTGAG ATCTTTGGTG
GCATGTCCTT GTAGACTGTC TGCCACCAGT ATCTATCATC TTGAAGGTGA
CTATTGAGTA GTTTATATGC ATGTGAAAAA CCAAACCTTC TATTCTCTTA
CTCATAGCCT CTCTTAATCA TAGCCCTGTG GCATGGAGTG TACCATTGAT
12650
+5990 ATCTTCCCTGG AATACTTTTT CAGGGGACAG CGGGACCTGG ACTGGCTTTG
GCCCAATGCT CAGCGTGATT CTGAGGAAAG GGTATTGGTG ACTGAATGCG
GCGGTGGTGA CAGTATCTTC TGCAAAACAC TCACCATTCC CAGGGTGGTT
GGAAATGATA CTGGAGCCTA CAAGTGCTCG TACCGGGACG TCGAC
(SEQ ID NO:1)

Figure 1 continued

11/21

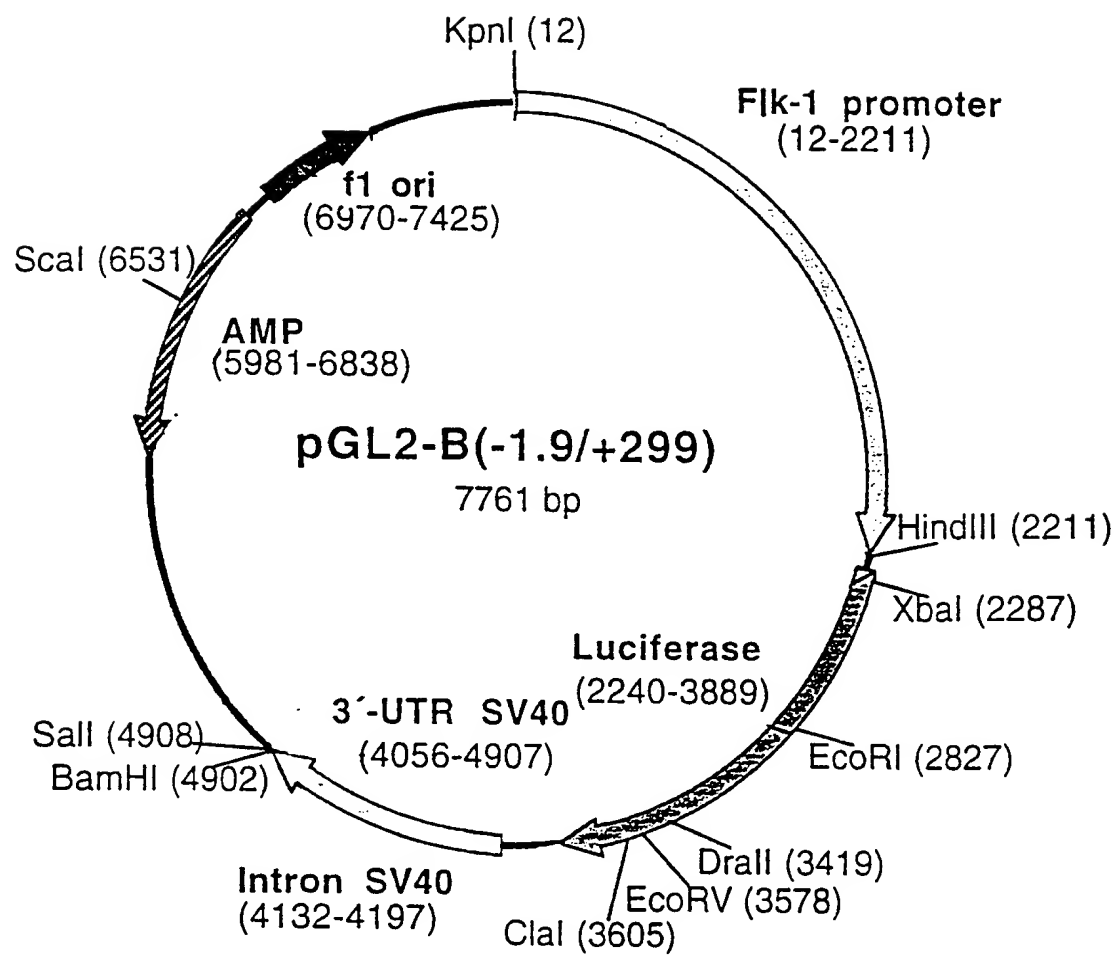


Figure 2

12/21

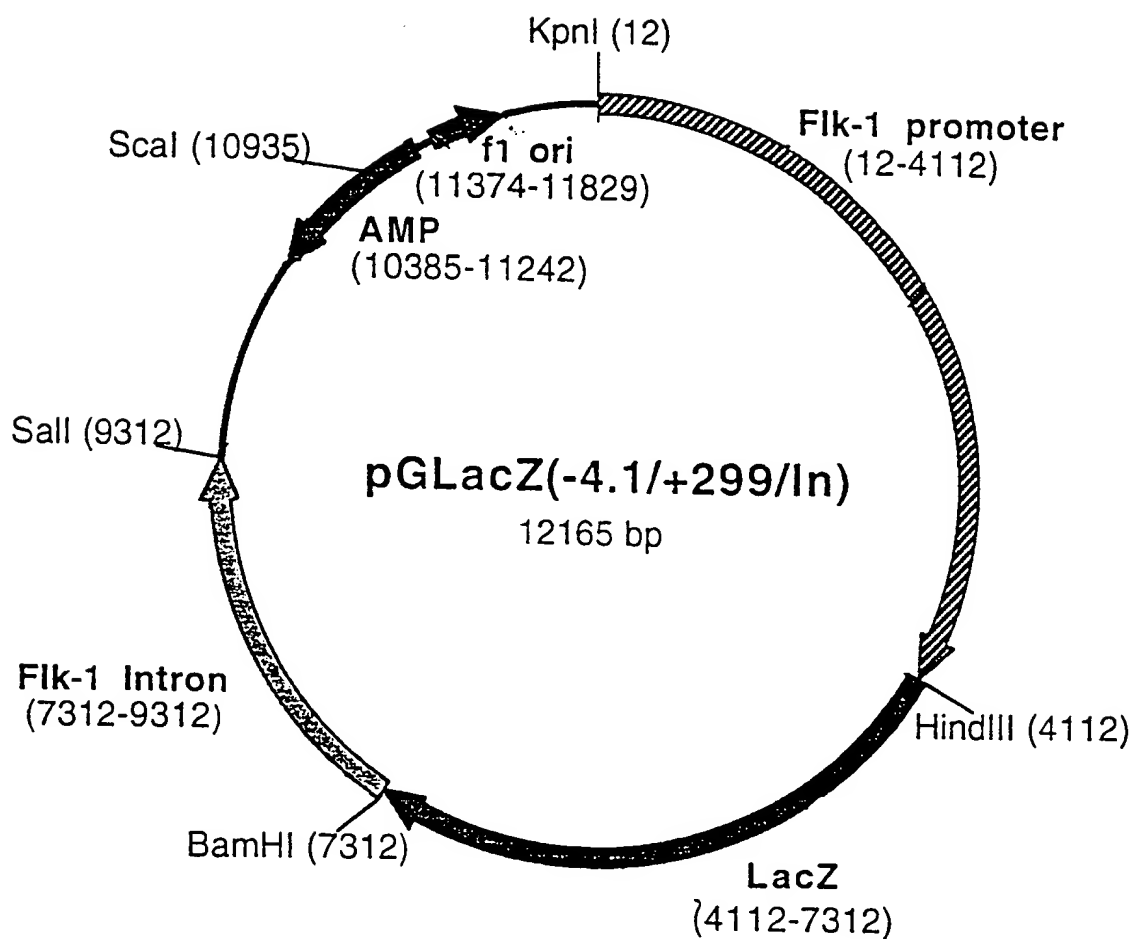


Figure 3

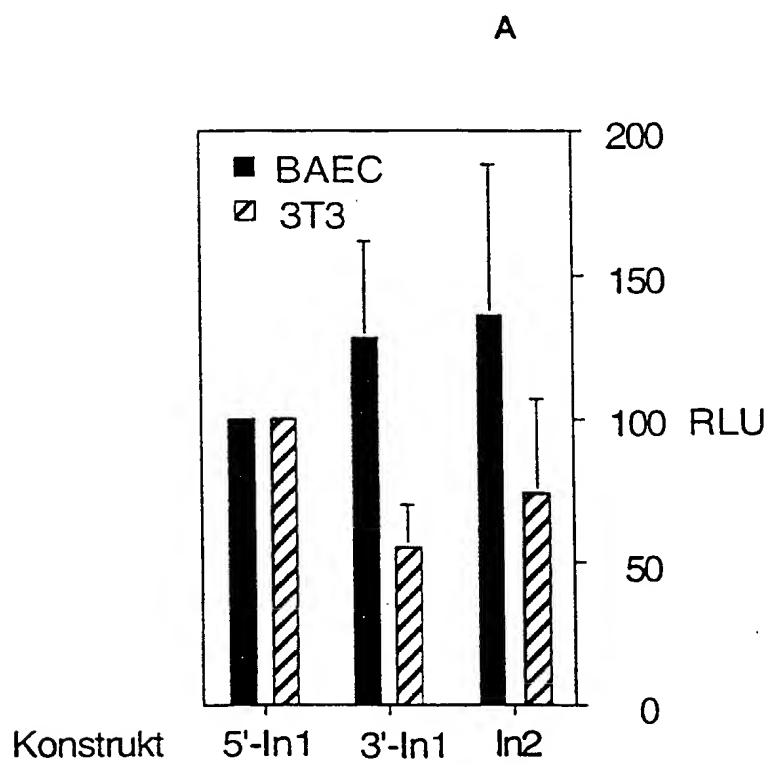
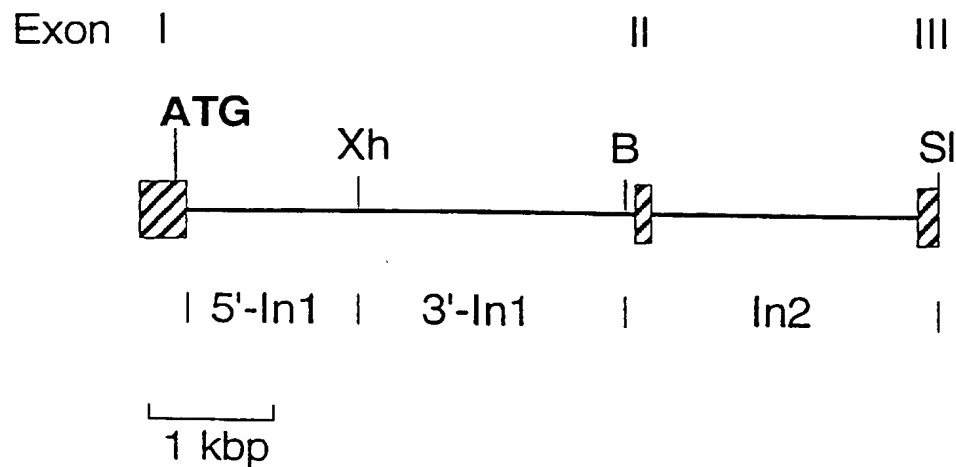


Figure 4

14/21

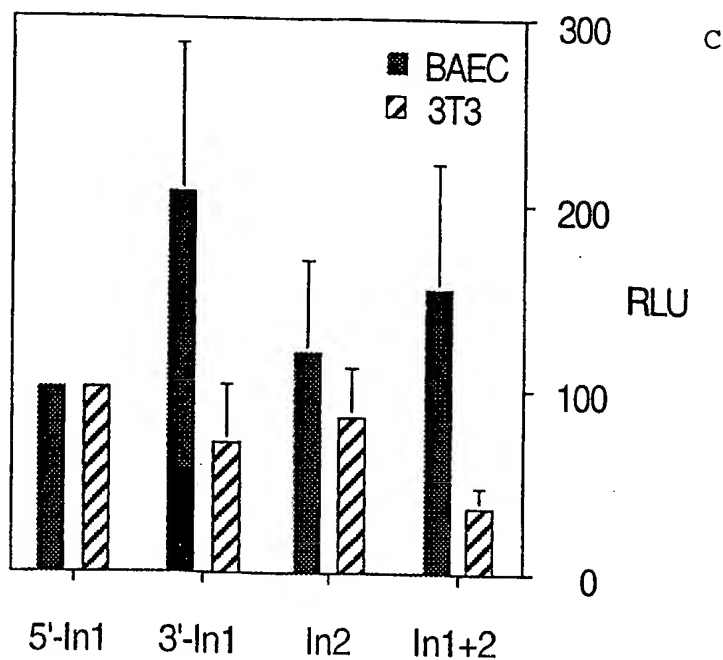


Figure 4 continued

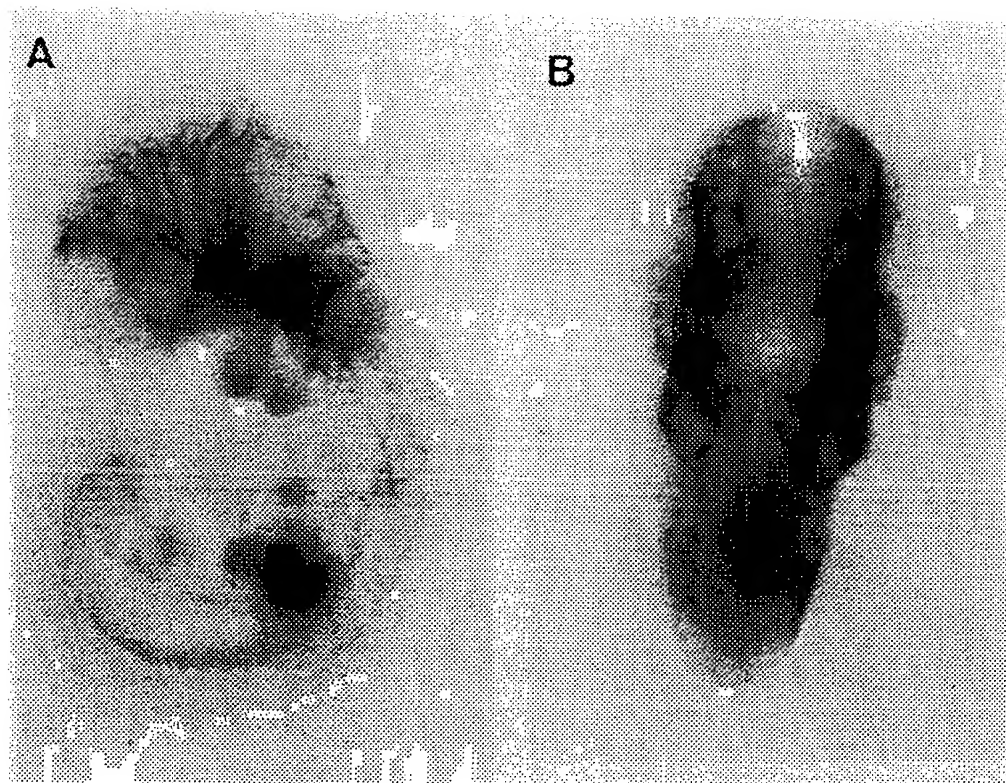


Figure 5

15/21

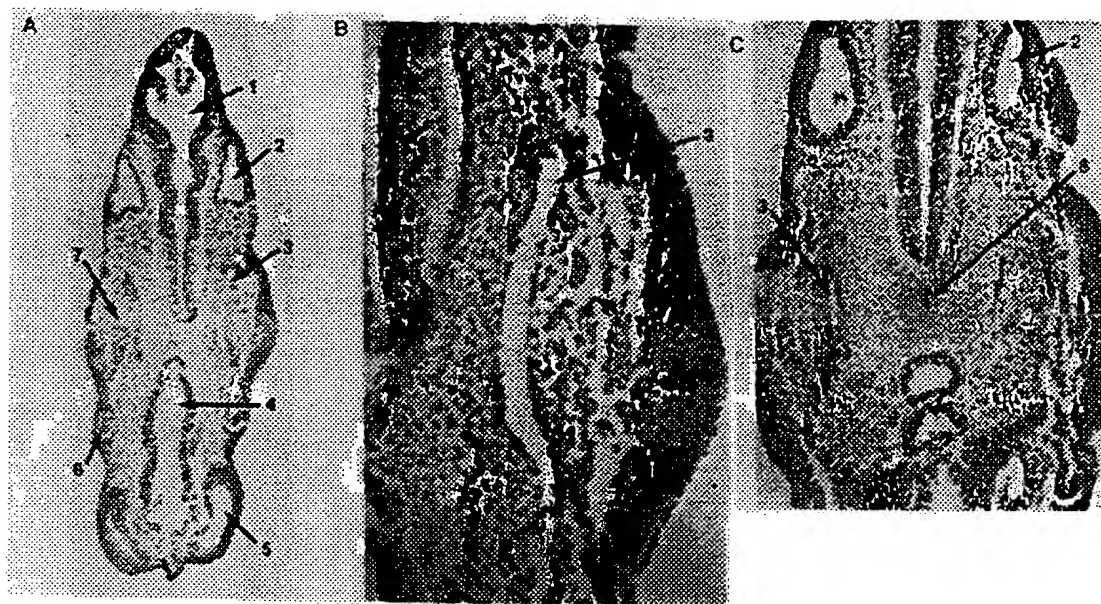


Figure 6

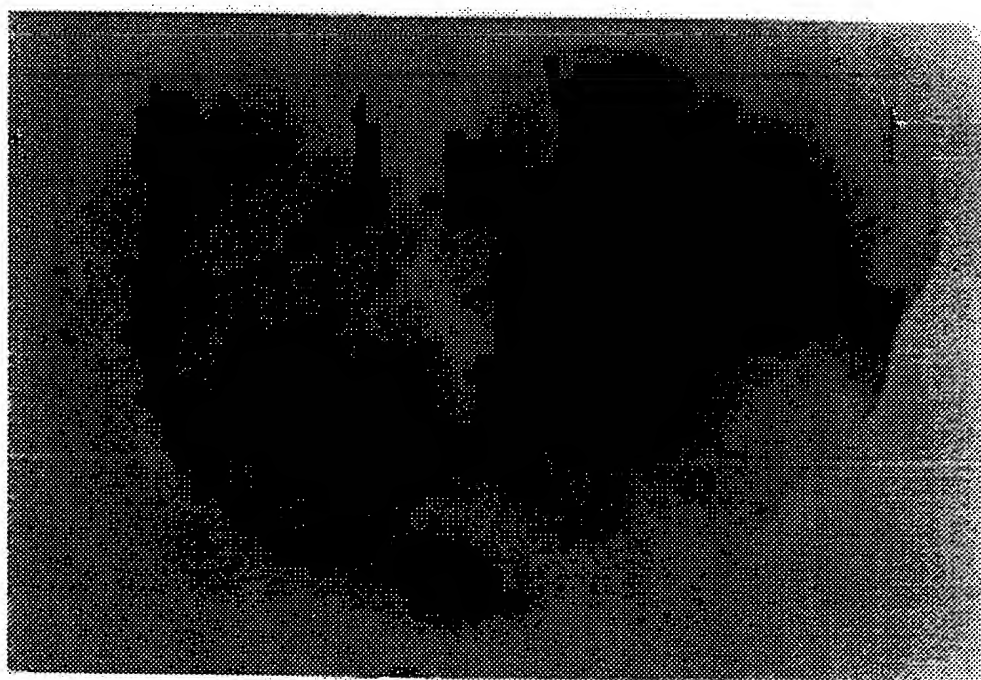


Figure 7

16/21

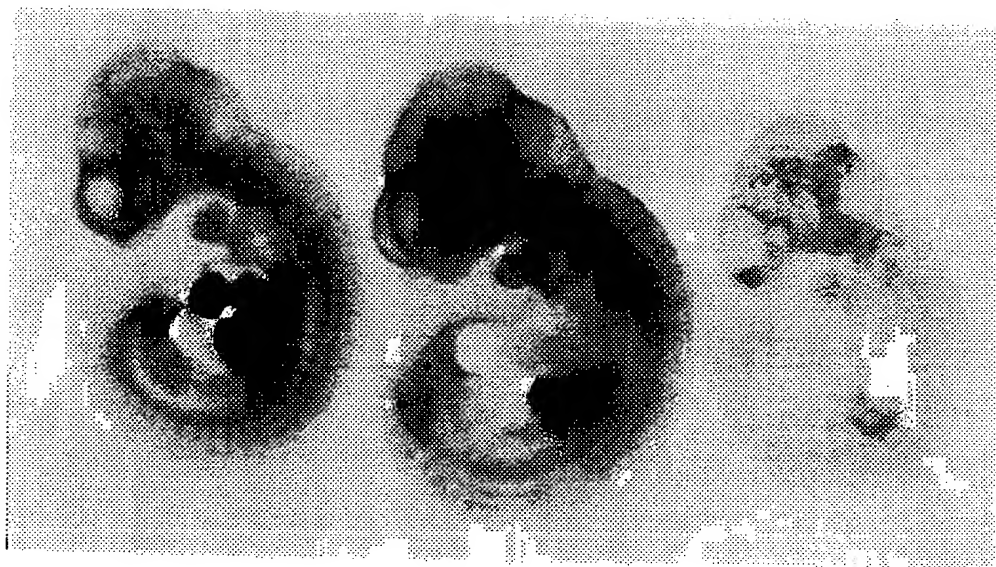


Figure 8

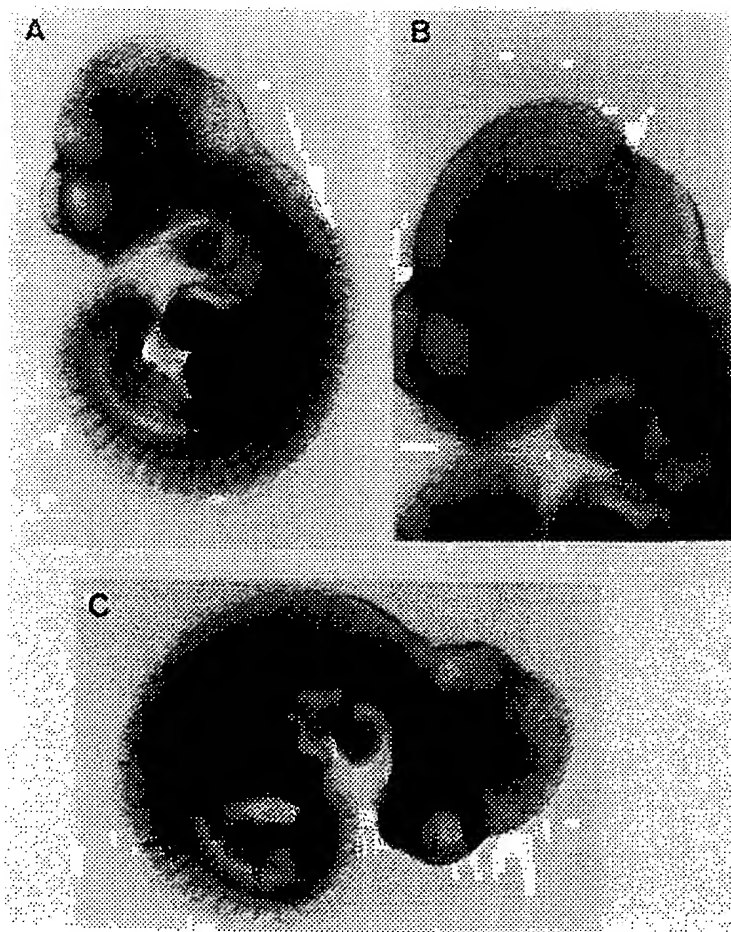


Figure 9

17/21

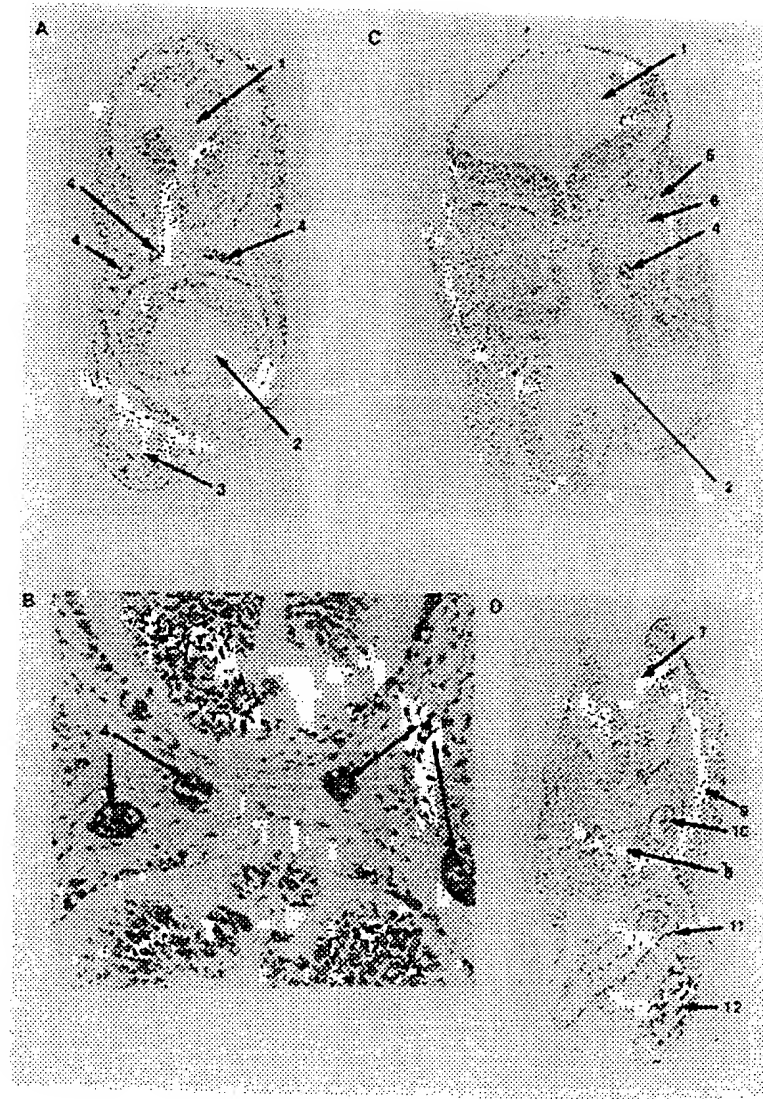


Figure 10

18/21

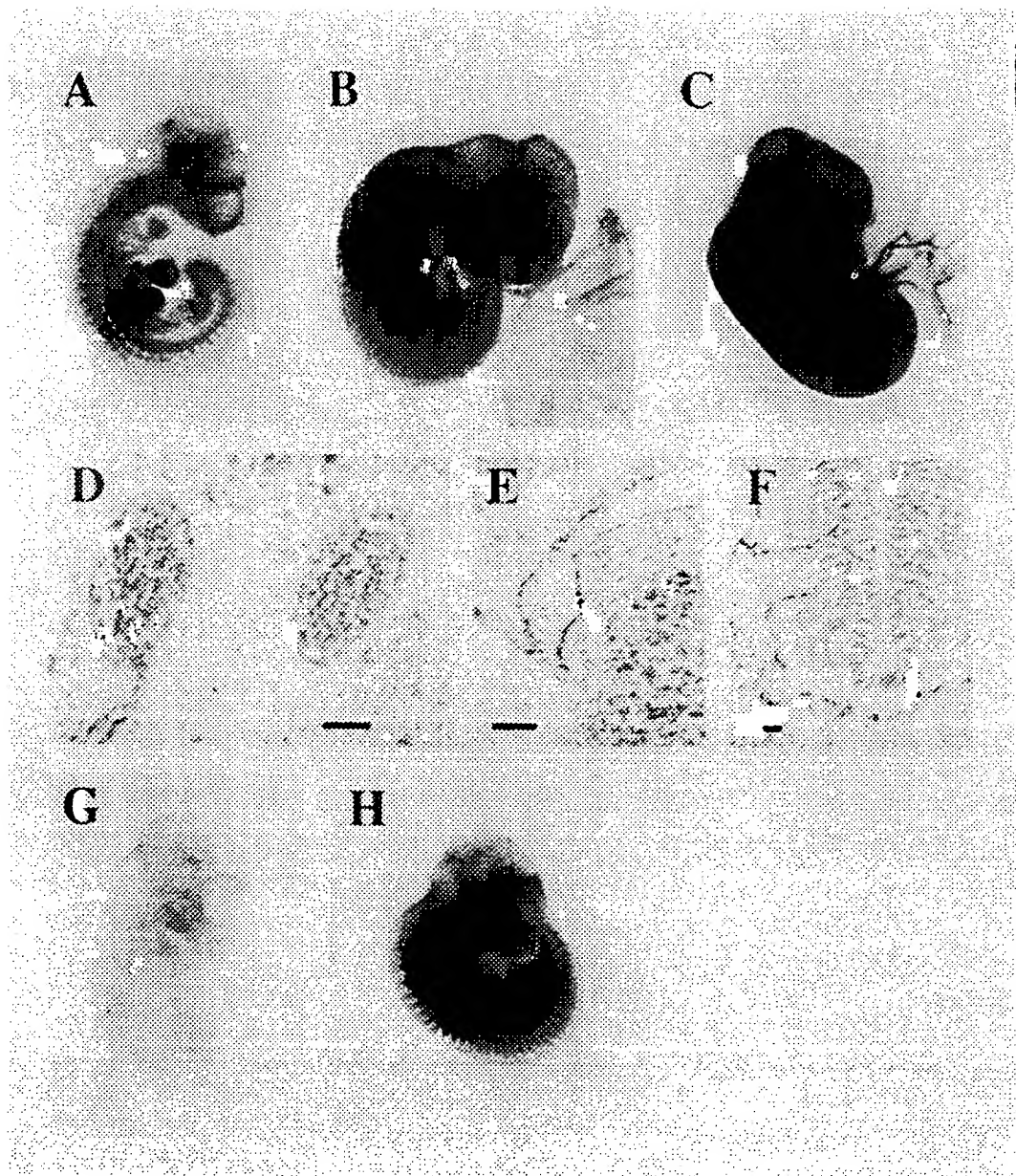


Figure 11

19/21

GATA PEA3
AAATGTGCTGTCTTTAGAAAGCCACTGCCTCAGCTTCTGCAGCTCAGATACCAAAGGAAGTCTGGT
GATA AP1
ACACAGCATGATAAAAGA CAATGGGACGGGGTCACAGTGGCTCCCGTCCCTTTTCAGGGGTATGGA
NFkB AP1
GACGAGCTGTAGAGAGATGTCTCCA GGGAGTTTTTCATTAATCAGCAATTTAGTCAGATCTGTGCA
STAT SCL/TAL-1
TCCTATGCTTTACAAGAAATGTCAGTGGGCCTGAGATCATCAGATGGAGGTTTCATCGGGTTTCAA
Ets-1 GATA Ets-1
TGICCCGTATCCTTTTGTAAGACCTTGAAGTTGGCAACGCAGGAAAACAGGAACCTCCACCCTGGT
SCL/TAL-1 Ets-1
GCCGTGAATTGCAGAGCTGTTGTGTTGGTTTGTGACCATCTGCCCATCTTCCTGT TATGACAGA
GCTTGTGAACTTTAACTGGGACTGGGGCAAAGTCAATCCACCTTTATACAATGAATTGCTGAAG
AGGCCTTTTAAAACTTGGAGTGTGCATTGTTTATGGAAGGCCTTTCCTATTGGATC

Figure 12

20/21

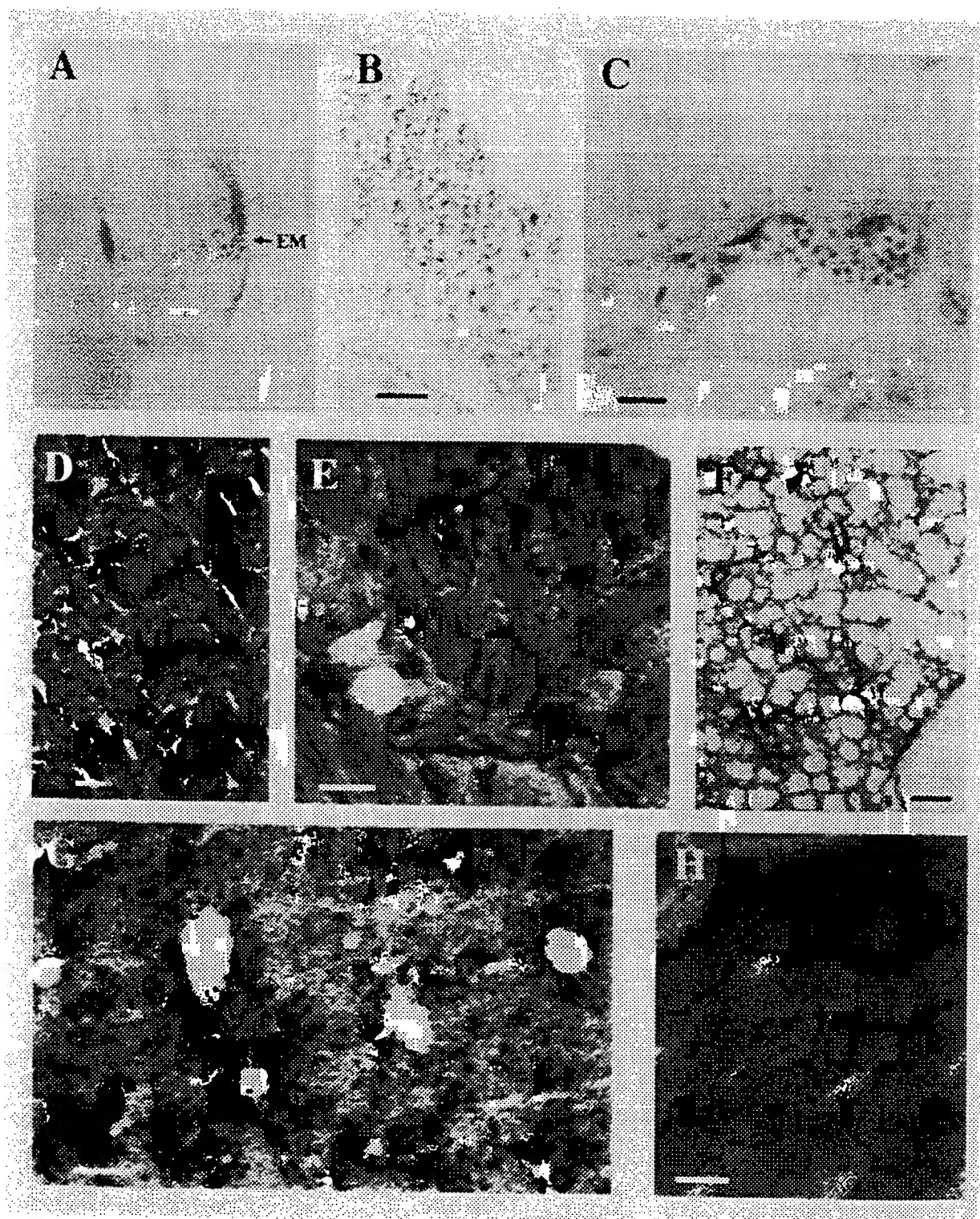


Figure 13

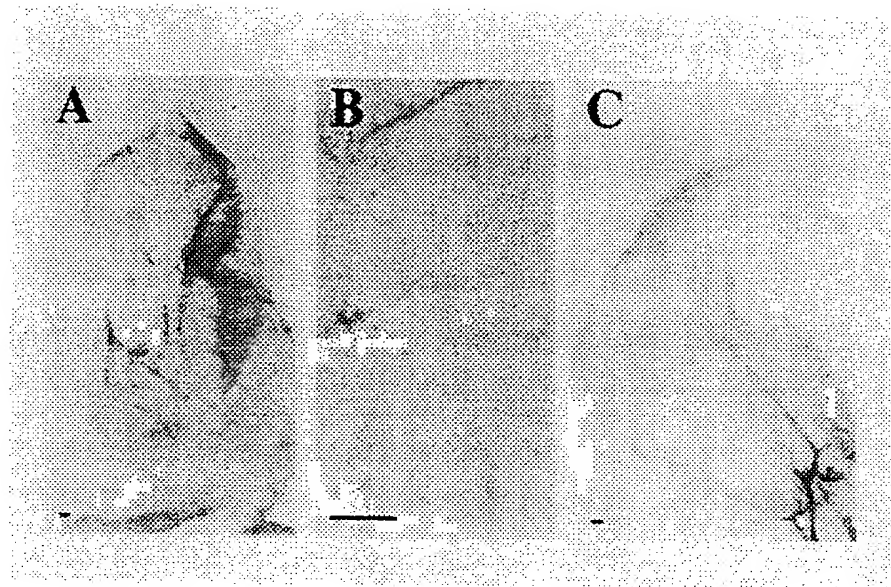


Figure 14

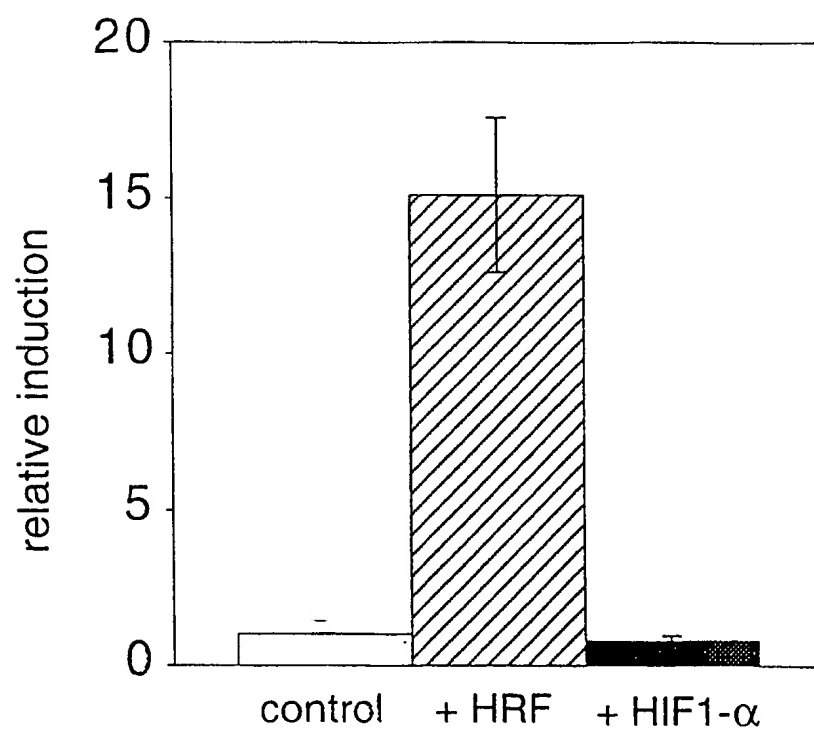


Figure 15